EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	746	((Steiner with (Adrian A)) (Grossman with (Mike M))).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L3	530	[(fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter))	US-POPUB; USPAT	OR	ON	2009/07/23
L4	2	((Steiner with (Adrian A)) (Grossman with (Mike M))).in. and L3	US: PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
L5	61962	(Precision Weatherford).	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35
L6	2	5 and L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	OR	ON	2009/07/23 15:35

SI	1	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$5 with fluid) and (pressur\$6 with (sen\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	USPAT	OR .	OFF	2006/02/23 15:05
82	8	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$5 with fluid) and (pressur\$6 with (sen\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OA .	ON	2006/02/23 15:46
S3	14	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump	US-PGPUB; USPAT	OR OR	ON	2006/02/23 15:46
S4	62	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OR .	ON	2006/02/24 12:22

S 5	50	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$\$processor)	US PCPUB; USPAT	OR	ON	2006/02/24 12:37
S 6	49	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:38
S7	59	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (thoke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and downstream	US-PCPUB; USPAT	OR	ON	2006/02/24 12:44
S8	43	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and	US POPUB; USPAT	OR	ON	2006/02/24

		downstream and (flow with control\$4 with orifice)			***************************************	
S9	7	("700"\\$"137"\\$) and ((control\\$4 with flow with rate) same (pressur\\$7 with fluid)) and conduit and (orftice with (open\\$4 clos\\$4)) and (choke valve) and turbine and (pressur\\$7 with fluid) and (pressur\\$7 with fluid) and (pressur\\$8 with (sen\\$3) detect\\$3 signal)) and (tube pitot pilot) and pump and (controller \\$5processor) and downstream and (flow with control\\$4 with orifice)	US-PGPUB; USPAT	OR	ON	2006/02/24 14:59
S10	2863	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow)	US-PGPUB; USPAT	OR	ON	2006/08/10 17:45
S12	0	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measun\$5)) and conduit and (flow with controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (the and (pressure near2 (sens\$3 detect\$3 measur\$5))	us Papub; uspat	OR	ON	2006/08/10 18:01
S13	23	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3	US PCPUB; USPAT	OR	ON	2006/08/11 09:59

		measur\$5))	•			
S14	5	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (drilling rig)	US-PGPUB; USPAT	OR	ON	2006/08/11
S15		(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (pitot and pilot)	US-PGPUB; USPAT	OA .	ON	2006/08/11
S16	11	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11
S17	7	(flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot)) and (pitot pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14
S18	7	(flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot))	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14

S19	356	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow))	US-PGPUB; USPAT	OR	ON	2006/08/11 12:29
\$20	30	(flow with (measur\$7 sen\$\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjus\$7 open\$4 clos\$3)) and (choke valve) and turbine and (pressure with (measur \$7 sen\$\$3 detect\$3)) and pump	US-PCPUB; USPAT	OR	ON	2007/01/26 14:05
S21	34	(flow with (measurs7 sens\$3 detect\$3) with conduit) and (flow with controls4 with oritice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant)) and (choke valve) and turbine and (pressure with (measur \$7 sens\$3 detect\$3)) and pump	US-PCPUB; USPAT	OR	ON	2007/01/26 15:01
S22	34	(flow with (measur\$7 sen\$\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjus\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance)) and (choke valve) and turbine and (pressure with (measur\$7 sen\$\$\$\$\$\$\$ detect\$3)) and pump	US-PCPUB; USPAT	OR	ON	2007/01/29 18:52

\$23	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjus\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance threshold)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26
\$24	28	["20030085036" "20040007131" "20060157282" "4091881" "4247312" "5010966" "5388650" "5415776" "5775442" "592752" "5928269" "5928519" "6041873" "6206113" "62324258" "6315813" "6328107" "6328118" "6413297" "6442245" "6490367" "6722436" "6790367" "6929068"), FN.	US PGPUB; USPAT	OR	ON	2007/01/29 18:52
S2 5	1196	(orifice with maintain\$4 with flow with fluid)	US-PGPUB; USPAT	OR	ON	2007/06/07 13:49
S26	487	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4)	US-PGPUB; USPAT	OR	ON	2007/06/07 14:06
S27	320	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and pump	US-PGPUB; USPAT	OR	ON	2007/06/07

S28	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:39
S29	55	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((pump same reservoir) and controller	US-PGPUB; USPAT	OR	ON	2007/06/26 13:29
S3 0	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:07
S31	1	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow)) with control\$4) and (pump same reservoir) and (wellbore borehole)	US-PCPUB; USPAT	OR	ON	2007/06/26 13:48
S 32	4	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((pump same reservoir) and turbine	US-PCPUB; USPAT	OR	ON	2007/06/26 13:49
S3 3	19	(orifice with maintain\$4 with flow with fluid same within) and ((measur\$7 sens\$4 detect\$4) with (fluid flow) and ((fluid flow) with control\$4) and (pump same reservoir)	US PCPUB; USPAT	OR	ON	2007/06/26 14:20

S34	19842	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit level tolerance range)) and (pump same reservoir)	US PGPUB; USPAT	OR	ON	2007/06/26 15:17
S35	3864	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:20
S3 6	2428	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and (fluid flow) with control\$4) and (fluid flow) with within with (limit range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:23
S 37	933	((measur\$7 sens\$4 detect\$4) with (fluid flow) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:28
S38	101	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 15:42
S39	15	((measur\$7 sens\$4 detect\$4) with (fluid flow) and ((fluid flow) with control\$4) and ((fluid flow) with with im with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/\$ "137"/\$)	US-PCPUB; USPAT	OR	ON	2007/06/26 15:43

S40	47	(((measur\$7 sens\$4 detect\$4) with (fluid flow) and ((fluid flow) with control\$4) and ((fluid flow) with control\$5) and ((fluid flow) with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/ \$ "137"/\$)	US-PGPUB; USPAT	OR	ON	2007/06/26 17:59
S41	1169	(wellbore with flow with control\$4)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:29
S42	428	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:39
S43	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/11/12 12:56
S44	230	(US-20070221380-\$ or US-20070215386-\$ or US-20070215386-\$ or US-20070187103-\$ or US-20070187103-\$ or US-20070187103-\$ or US-20070187103-\$ or US-200701871676-\$ or US-20070088704-\$ or US-20070045006-\$ or US-20070045006-\$ or US-20070047017675-\$ or US-200602031-\$ or US-200602031-\$ or US-20060175061-\$ or US-2006007408-\$ or US-20060037408-\$ or US-20060037408-\$ or US-200600037408-\$ or US-200600037408-\$ or US-200600037408-\$ or US-200600037408-\$ or US-200600037408-\$ or US-20050288819-\$ or US-20050288819-\$ or US-20050288819-\$ or US-20050288819-\$ or US-20050289819-\$ or US-2005028989819-\$ or US-20050289819-\$ or US-20050289819-\$ or US-20050289819-\$ or US-20050289819-\$ or US-20050289819-\$ or US-20050289819-\$ or	US PGPUB; USPAT	OR	OFF	2007/11/12

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S45	230	5579283-\$). did. or (US- 5579225-\$ or US- 5579225-\$ or US- 55792640-\$ or US- 55792640-\$ or US- 5505263-\$ or US- 5482402-\$ or US- 5482402-\$ or US- 54829055-\$ or US- 5392867-\$ or US- 5392867-\$ or US- 5392867-\$ or US- 5392867-\$ or US- 5315637-\$ or US- 53168932-\$ or US- 5180015-\$ or US- 5180015-\$ or US- 5180015-\$ or US- 5180015-\$ or US- 4797821-\$ or US- 44797821-\$ or US- 4479367-\$ or US- 4475539-\$ or US- 4475539-\$ or US- 4475539-\$ or US- 4475539-\$ or US- 447544-\$ or US- 4374544-\$ or US- 4374544-\$ or US- 4374565-\$ or US- 4374544-\$ or US- 4374565-\$ or US- 5376076-\$ or US- 5376077-\$ or US- 5376076-\$ or US- 5376076-\$ or US- 5376077-\$ or US-	US-PGPUB;	OR	ОИ	2007/11/12
545	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and \$44	US-PGPUB; USPAT	OR	ON	2007/11/12 12:54
S46	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 11:37

S47	184	(US-20070215386-\$ or	US-PGPUB;	OR	OFF	2007/11/12
		US-20070187103-\$ or	USPAT			12:57
		US-20070175638-\$ or				
		US-20070151762-\$ or				
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S48	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and \$47	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S49	184	(US-20070215366-\$ or US-20070187103-\$ or US-20070187103-\$ or US-200701871762-\$ or US-200701871762-\$ or US-20070068704-\$ or US-20070068704-\$ or US-2007004960-\$ or US-2007004960-\$ or US-20070039731-\$ or US-2006017675-\$ or US-20060260331-\$ or US-20060260331-\$ or US-2006027795-\$ or US-20060177661-\$ or US-20060177661-\$ or US-20060177601-\$ or US-2006017391-\$ or US-2006005402-\$ or US-2006005402-\$ or US-2006005478-\$ or US-2006005478-\$ or US-2006005478-\$ or US-20060057781-\$ or US-20060057791-\$ or US-20060057791-\$ or US-20060057791-\$ or US-20060057791-\$ or US-20050279506-\$ or	US POPUB; USPAT	OR .	OFF	2007/12/11

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S53	185	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and \$52	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S54	59	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump and turbine and (pressure with (measur\$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/12/11
S 55	126	S53 not S54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S56	38	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11

S67	25	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow same (predetermined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump not \$54	US-PCPUB; USPAT	OR	ON	2007/12/11
S58	2541	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:01
S59	2389	wellbore and pump\$4 and (((fluid flow liquid) with (measur57 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4))	US-PCPUB; USPAT	OR	ON	2009/07/14 14:15
S60	2141	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4exceed \$4))	US-PGPUB; USPAT	OR	ON	2009/07/14
S61	2187	wellbore and pump\$4 and (((fliuid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 exceed \$\$41)	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16

S62	770	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:17
S63	986	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with ((regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value))	US-PCPUB; USPAT	OR	ON	2009/07/14 14:18
S 64	838	wellbore.bsum. and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid) arte) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired yatle))	US PGPUB; USPAT	OR	ON	2009/07/14 14:19
\$65	316	wellbore.bsum. and pump\$4 and ((((Iliid Ilio) liquid) with ((measur\$7 sens\$4 detect\$4 meter)) same (((Iluid Ilow liquid) with (regulat\$7 control\$4))) and (((Iluid Ilow liquid) with (radio) with (maintain\$4 within kep\$4 above below exceed\$4) with ((limit constraints range boundary desired value)) and loop\$4	US-PGPUB; USPAT	OR .	ON	2009/07/14 14:20

S66 368	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with	US-PGPUB; USPAT	OR	ON	2009/07/14 14:21
***************************************	(regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above			***************************************	
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S68	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:34
S69	368		us-Popub; Uspat	OR	ON	2009/07/14 14:47
S70	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraint range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S71	379	wellbore and pump\$4 and (((fluid flow line) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liguid) with (regulat\$7 control\$4))) and ((fluid flow liguid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14

2	379	(US-20090166171-\$ or	US-PGPUB;	OR	OFF	2009/07/14
		US-20090158837-\$ or	USPAT			14:50
		US-20090140444-\$ or				
		US-20090139724-\$ or		į		
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S73	379	3578077-\$).did. ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and \$72	US-PGPUB; USPAT	OR	ON	2009/07/14 14:51

S74	15423	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:39
S75	173	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and \$72	US-PCPUB; USPAT	OR	ON	2009/07/14 16:40
S76	27	[US-20040098984-\$ or US-20030078751-\$ or US-20030078751-\$ or US-20030078751-\$ or US-20050056313-\$ or US-2003006650-\$). did. or (US-6568416-\$ or US-4942763-\$ or US-511582-\$ or US-6547505-\$ or US-5426137-\$ or US-5426137-\$ or US-5426137-\$ or US-5560275-\$ or US-5572823-\$ or US-55572823-\$ or US-556027-\$ or US-556027-\$ or US-556027-\$ or US-6562750-\$ or US-6562750-\$ or US-6562750-\$ or US-66627-\$	US-PGPUB; USPAT	OR.	OFF	2009/07/14
S77	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and \$76	US-PGPUB; USPAT	OR	ON	2009/07/14 16:41

S78	1294	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14
S79	732	((fluid flow liquid rate) with (maintains4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with (feedback loop))	US-PCPUB; USPAT	OR	ON	2009/07/14
S80	2	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with ((sedback loop)) and (S72 S76)	US-PCPUB; USPAT	OR	ON	2009/07/14 16:44
S81	9	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop)) and (S72 S76)	US-PCPUB; USPAT	OR	ON	2009/07/14 16:44
S82	21	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (\$75 S76)	US-PCPUB; USPAT	OR	ON	2009/07/14

S83	2364	((fluid flow liquid rate) with (maintains4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14
S84	1459	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S85	20	((fluid flow liquid rate) with (maintains4 within keeps4 above below exceeds4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and ((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulats7 control\$4))) and wellbore	US-PGPUB; USPAT	OA .	ON	2009/07/14
S86	36	((fluid flow liquid rate) with (maintains4 within keeps4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellboore	US-PGPUB; USPAT	OR	ON	2009/07/14

S 87	65	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and ((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbox and w	US-PGPUB; USPAT	OR .	ON	2009/07/14
S88	106	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 17:10
S89	41	S88 not S87	US-PGPUB; USPAT	OR	ON	2009/07/14 17:11
S90	124	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj ((determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore	US PGPUB; USPAT	OR	ON	2009/07/20 08:41

S91	106	((Iffuid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S92	118	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore not \$91	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S93	20	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predefered tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source) same (feedback loop)) and wellbore not \$91	US PCPUB; USPAT	OR	ON	2009/07/20 09:16

S94	45	("20020117214" "20030066650" "20030078751" "20030078751" "20040007131" "20060157282" "3578077" "4091881" "4197868" "4247312" "4374544" "494763" "5010966" "5382411" "5388650" "5415776" "5426137"	US-PGPUB; USPAT	OR	ON	2009/07/20 09:30
		9419/76 942013/ "5426137" "5694966" "5749422" "5994966" "5749422" "5827357" "5857522" "5862869" "5921962" "6921962" "6041873" "6048175" "6204131" "62341209" "6315813" "6328112" "6443245" "6443245" "6668943" "6769367" "6792436" "67929068" "6991661") "6792067" "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661") "6991661"] "69916610"] "6991661"] "69916610"] "69916610"] "69916610"] "69916610"]				
S95	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source vessel container) same (feedback loop)) and wellbore not (\$91 \$93)	US POPUB; USPAT	OR	ON	2009/07/20 09:56
S96	25	S94 and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:00
S97	899	700/282.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01

S98	237	700/283.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S99	412	137/2.cols.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S100	175	137/7.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S101	138	137/8.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S102	281	137/101.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S103	436	137/110.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S104	277	700/284.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S105	517	251/5.cols.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S106	597	137/14.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S107	101	137/485.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S108	699	137/486.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S109	1198	137/487.5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S110	603	137/489.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S111	1275	137/557.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S112	403	175/5.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S113	146	175/25.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S114	151	175/38.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S115	338	175/48 ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S116	369	702/9.cols.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S117	267	702/12.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S118	752	702/45.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S119	549	702/50.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S120	478	702/100.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03

S121	237	702/113.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S122	86	702/114.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S123	152	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S124	245	166/358.cds.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S125	60211	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel))	US-PGPUB; USPAT	OR	ON	2009/07/20
S126	1258	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj ((determined defined)))) and (pump\$4 with ((reservoir tank source) vessel)) and wellbore	US-PGPUB; USPAT	OR.	ON	2009/07/20
S127	1270	(((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with ((reservoir tank source) vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:05

5128 528	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value	OR	ON	2009/07/20 10:07
***************************************	threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source	 and the state of t	***************************************	
***************************************	vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter)))	***************************************	***************************************	***************************************

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